Class Tasks 4.21 Suggested Answers

Lesson4.21 Principles of Logic Applied to Program Design Activities

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Question 21.1 – Mathematical logic

Question 1

For the following statements, identify which is the premise and which is the inference?

Statement	Premise or Inference?
The Sky is Blue	
All clouds are blue	
Clouds are in the sky	

Statement	Premise or Inference?
Football is a sport	
All sports are fun	
Football is fun	

Statement	Premise or Inference?
The earth is a sphere	
Round objects are spheres	
The earth is round	

Statement	Premise or Inference?
Cars are fast	
Engines go fast	
Cars have engines	

TIME ALLOWED: 5 mins

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Suggested Answers:

Statement	Premise or Inference?
The Sky is Blue	Premise
All clouds are blue	Inference
Clouds are in the sky	Premise

Statement	Premise or Inference?
Football is a sport	Premise
All sports are fun	Premise
Football is fun	Inference

Statement	Premise or Inference?
The earth is a sphere	Inference
Round objects are spheres	Premise
The earth is round	Premise

Statement	Premise or Inference?
Cars are fast	Inference
Engines go fast	Premise
Cars have engines	Premise

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Question 21.1 – Mathematical logic

Question 2

For the following statements, identify if the premise and inference is TRUE or FALSE

Statement	True or False?
7 is greater than 5	
7 is less than 10	
7 is between 5 and 10	

Statement	True or False?
8 is less than 3	
20 is greater than 3	
20 is between 3 and 8	

Statement	True or False?
7 is greater than 5	
7 is less than 10	
7 is between 7 and 9	

Statement	True or False?
Customers can get discounts	
Customers buy goods	
All goods have discounts	

TIME ALLOWED: 5 mins

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Suggested Answers

Statement	True or False?
7 is greater than 5	TRUE
7 is less than 10	TRUE
7 is between 5 and 10	TRUE

Statement	True or False?
8 is less than 3	FALSE
20 is greater than 3	TRUE
20 is between 3 and 8	FALSE

Statement	True or False?
7 is greater than 5	TRUE
7 is less than 10	TRUE
7 is between 7 and 9	FALSE

Statement	True or False?
Customers can get discounts	TRUE
Customers buy goods	TRUE
All goods have discounts	FALSE

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